

## ASR-9 Building & Tower Relocation Ft Lauderdale Pre-Bid Questions and answers

1. Sheet E005- Note 8 requires all conduit to be RGS minimum  $\frac{3}{4}$ " . Does this note apply to all branch conduits as well, such as lighting, power, comm., security and controls?  
**yes**
2. Sheet E003- The number and size of conduits leaving the ASR building and going overhead to tower, are not the same size and quantity as described on Sheet TE001 detail 3/TE001. Please clarify.  
**2-2 -1/2" for ASR, 1" tower light & recp't, 1" (formerly  $\frac{3}{4}$ ") tower hoist power, 3-2 –  $\frac{1}{2}$ " radar cables See revisions on TE003, E002, E003 and C017**
3. Sheet E001- A telco duct is shown between the new ASR building and the temporary TASR facility. This duct has no conduit size, quantity, type or associated detail of installation on sheet CO14. Please Provide.  
**No Revision. See note 5 C015.**
4. Sheet E001- The primary electrical duct has a note to coordinate with FP&L. Can you provide the FP&L contact information?  
**Working on this next week.**
5. Sheet E001- Can you provide the location of the new FP&L pole location that will be placed on the north side of SW 42<sup>nd</sup> St?  
**I expect that FP&L will drop the new pole on the ROW edge at the corner of the property.**
6. Sheet E001- Will any electrical permitting through a city, county or airport authority be required?  
**NO**
7. Sheet E003- Note 11 has language stating the transformers exact location could change by a FP&L. If it moves further away from the building it becomes a greater cost to the contractor. Can the shown location be used for bidding purposes?  
**See C001 for site plan dimensions.**
8. Sheet E019- Note 1, says "Solid lines indicate contractor furnished". The panel to the RE/CONST TRAILER is indicated with a solid line but no equipment number. Please provide.  
**The RE trailer is rented by the contractor for the RE's use.**
9. Sheet E005- The SERVICE DISCONNECT, Switches SW1, SW2, SW3, SW4, SW5, Panel MDP, Panel MDPE are all drawn in dashed lines like the (GFE) equipment, but no (GFE) label is attached to them. Is the contractor to provide these items? Refer to sheet FLL-D-ASR-E005. Who is responsible to provide Panel "MDEP", SW1, SW2, SW3, SW4, SW5,  
**Working on this**
10. Sheet E017 and E018- Where can the conduit and cable schedule for the wiring shown on these pages be found?  
**No conduit or cable schedule will be provided for the ERMS equipment shown on E017 or E018.**
11. Sheet CO17- Where is waveguide support 5/CO17 located? Refer to sheet FLL-D-ASR-C017. Detail 5/C017. Who is responsible for furnished and install this Waveguide Support?  
**The waveguide support is deleted, but the  $\frac{3}{4}$ " conduit is increased to 1" to span this distance. See revision to C017.**

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12. Refer to sheet FLL-D-ASR-C018. Detail 2/C018. Who is responsible for furnished and install those Telco Box?

13. Contractor to furnish Telco Box with equipment listed.

14. Refer to sheet FLL-D-ASR-A001. Detail 1/A001. Who is responsible for furnished and install all the 4' x 8' x 3/4" Telco Board around the perimeter wall inside of Equipment room?

Telco Board Plywood to be contractor furnished.

15. Refer to sheet FLL-D-ASR-A002. Detail 1&2/A002. Bldg. North and South elev. Show four exterior light fixtures and on sheet FLL-D-ASR-E004 only three. Please could you clarify how many they are?

Revision A/E004 additional light over the PCS door for a total of 4 outdoor lights.

16. Sheet TE002- Detail 2/TE002 is the only reference shown for conduits going to the TASR. Do conduits need to go to the TASR? If so is it 2-2 1/2 conduits? Which detail on sheet C014 will be used between the TASR and tower?

Per detail 2/TE002, 2 conduits (2-1/2") come from the ASR bldg shown on detail 1/TE002 at 9'-6". Per 2/TE002, 2 conduits (2-1/2") come from the TASR bldg. Both pairs of these conduits are for running antenna motor power and antenna control wiring. The triple 2-1/2" conduits shown on detail 1/TE002 stop at the center of the tower and do not run vertical.

17. Sheet TE002- Are all conduits on the tower to be GRS or GRSC?

All exterior conduits are Galvanized Rigid Steel Conduits. Some are PVC coated. Refer to the drawings for specifics.

18. Detail C/S009 refers to details 8 & 9 on S011 for handrail details and attachments?. I cannot locate these details on any drawing. Plans also show a removable handrail at the loading dock. Will you confirm that the two entrance ramps as well as the loading dock require handrails? See attached. The signed drawings have these details.

19. I understand there is a requirement of Division 5 1.6.A&B for AISC Quality Certification as a Category "STD" shop or "CSE" Erector. .

After discussing this with the structural engineers, the quality certifications remain as a requirement.

20) Where will the staging area be for the Contractors Trailer, Storage and Sub Storage as on RE Trailer is identified on the drawings?

The contractor is required to organize those items with the RE. I expect most of these to be in the southwest corner.

21) Spec Section 01 10 00 1.4C GFE – it states there is a two week window for GFE delivery goes on to state there is a 3 week window. Which is correct and will we have any say on delivery dates as the timelines provided in 1.3 of the same spec are very tight.

Coordinate the GFE with the RE in order to meet the scheduled milestones and completion.

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22) Please clarify if the contractor is responsible for the monthly power consumption costs associated with the Temporary Radar Facility Trailers.

**The Contractor is not responsible for the FAA temporary radar facility power consumption.**

4) We have performed many FAA Contracts in which the general conditions portion of the specifications are written such that they apply to the biggest projects but aren't always used on the smaller projects, this being said, I would like to ask clarification on a few items:

a. Will the RE trailer be required to be of the size as specified in 01 52 13 and will all furnishings be required as well (I know this typically depends on how many people are on site)?

**I am working on this trailer size. More to come.**

b. Is the CQC requirement as outlined in 01 40 00 3.4 required (QC Manager with no other duties, Electrical/Mechanical/Structural engineers for submittal review and available to be on site for inspections)?

c. Network Analysis System as defined in 01 32 00 completely or a variation there to?

5) M001 Detail 3 shows to support unit on 4" high concrete but S009 shows mechanical pad elevated more than 1' above finished grade to be 6" thick concrete? Please advise which to follow or should we put 4" concrete pad on top of 6" equipment pad?

**Per detail 3/M001, 4" concrete is the housekeeping pad on the concrete foundation. See section E/S009 for the HVAC concrete foundation.**

6) Who is responsible for EG start-up? Specification sections 26 00 01 and 26 00 02 both talk about factory testing and on site testing of GFE but nothing talks about start-up. Please advise.

7) Will Contractor receive a copy of GFE Equipment Drawings in autoCAD to allow for any as built drawing modifications as outlined in 26 00 02 2.3A?

**No drawings are available from the FAA in autoCAD, only MicroStation. GFE vendors' drawings may be available. Engineer's personal views withheld.**

8) Spec 26 00 02 3.1A states Contractor is to provide two copies of Factory Test Reports to COTR but 3.1B states COTR will provide one copy of Factory Test Report to Contractor to include in Contractor Acceptance Test Requirements. Please advise which is correct?

9) Spec 26 00 02 3.1B also states Contractor should have representative present at Factory Testing. Can you advise which CFE items will have factory testing, where the factory is located and how many trips we should be responsible for to each location so we

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can include this in our bid proposal? If this reference is to Testing of Equipment By Factory Trained Personnel on site, then we should be fine.

10) M005 Note 5 States Contractor is responsible for all permits and Inspections required for Fuel System but specification section 01 10 00 1.8A does not show permitting required for this item. Please advise if we are required to have permitting and inspections for the fuel system?

**Broward County may require a permit for the fuel tank. I have not checked.**

11) The following is for interior of the CMU building walls:

a. Please advise what the wall between PCS Room and Equipment Room is constructed out of?

**See detail 9/A003**

b. Please advise how the Restroom East and South walls should be constructed (Framing, insulation, veneer and finish)

**See detail 9/A003**

c. Please advise if all wall in PCS Room and Equipment Room that are CMU get 1 ½" Rigid Foam Board with ¾" plywood and 5/8" sheetrock with FRP? If not please advise.

**See detail 6/A003 and section 2/A003. No sheetrock involved.**

Drawing C003 gives a legend and states "+1.54 Existing Elevation". Typically this means that this is the mark for existing elevations but I don't see any or is this reference to say that the existing elevation is 1.54' higher than the proposed elevations? Please advise.

**I think a drafting level has been minimized that showed the existing elevations. See the attached C003 directly from the permit engineer.**

Information from the Pre-Bid meeting.

The Short Circuit Coordination Study is in the specifications and required. Plan for this.

The Arc Flash Analysis is in the specification and required. Plan for this.

TS005 and M007 is blank at this point.

TS027 is not in contract.

Detail 5/C017 see Question 11.

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Fuel tank is not GFE but contractor furnished. See revision M008 A.

Metal siding shown on the unsigned drawings S005 is not shown on the signed drawings.

Detail 4/E014 shows the fence grounding outside of the fence. This will be corrected to show the grounding inside the fence by an equal amount.

The signed S011 drawing shows crushed stone on several details. No crushed stone is required around the concrete pads.

Spec 12 59 00 Mayline eLAN 48" desk seems available at [www.nexelshelf.com](http://www.nexelshelf.com), and [www.nextag.com](http://www.nextag.com) (6 vendors).

The Broward County Permit Dep't is requiring some small changes to the driveway and striping.

1. Driveway is now crowned.
2. Regrade swales at either side of driveway to catch basins.
3. Clean both catch basins in the ROW.
4. Remove 6" white along driveway.
5. Remove 6" yellow along median.
6. Paint 6" 10-30 skip within median.
7. Additional details on paving requirements from Broward County on the sections.